

## BEAR RIVER BASIN

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## 10113500 BLACKSMITH FORK ABOVE UTAH POWER &amp; LIGHT CO.'S DAM, NEAR HYRUM, UT

LOCATION.--Lat 41°37'25", long 111°44'17", in SE<sup>1/4</sup>NE<sup>1/4</sup>NE<sup>1/4</sup> sec. 8, T. 10 N., R. 2 E., Cache County, Hydrologic Unit 16010203, on right bank 1.1 mi upstream from diversion dam, and 6 mi east of Hyrum.

DRAINAGE AREA.--263 mi<sup>2</sup>.

## WATER DISCHARGE RECORDS

PERIOD OF RECORD.--October 1913 to September 1996, March 2000 to current year. Monthly discharge only for October 1913, published in WSP 1314.

REVISED RECORDS.--WSP 1514: 1925. WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Crest-stage gage since March 2000. Elevation of gage is 5,020 ft above NGVD of 1929, from topographic map. October 2, 1934 to May 27, 1987 at site 1,200 ft downstream at different datum. Prior to Oct 2, 1934, at site 200 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. A few small diversions for irrigation of about 200 acres above station. Flow is slightly regulated by powerplant above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,650 ft<sup>3</sup>/s, May 14, 1984, gage height, 7.12 ft, site and datum then in use; minimum, 4.7 ft<sup>3</sup>/s, Nov 28, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 140 ft<sup>3</sup>/s and maximum (\*):

	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)		Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
	Mar 19	2315	144	4.36		Apr 8	0630	*159	*4.46

Minimum daily discharge, 38 ft<sup>3</sup>/s, Jan 6 and Sep 29.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	45	44	45	45	47	95	80	74	61	49	45
2	48	46	43	45	45	46	103	79	72	61	50	46
3	48	46	43	39	45	47	114	85	68	60	50	48
4	47	46	43	41	45	47	110	91	64	60	50	48
5	47	45	44	40	44	47	110	97	62	59	49	47
6	46	44	44	e38	44	47	107	98	61	59	48	46
7	47	44	47	e40	45	47	111	95	63	59	47	45
8	47	45	45	42	45	48	140	91	64	58	47	45
9	47	46	43	42	44	51	126	87	66	57	46	45
10	46	49	44	43	43	54	116	82	72	57	46	44
11	45	47	44	43	43	57	104	86	72	56	46	45
12	46	46	44	42	44	57	94	86	70	55	46	45
13	45	46	44	42	e43	59	90	89	68	56	45	45
14	45	47	45	43	e43	62	89	84	68	55	45	44
15	45	46	43	43	e43	66	88	80	66	56	44	44
16	45	47	39	43	43	69	87	77	65	56	45	46
17	45	50	40	42	44	74	85	73	66	56	45	45
18	45	46	41	e42	44	82	87	72	64	57	48	45
19	45	44	42	e42	45	97	85	75	65	56	47	45
20	44	47	43	43	44	109	87	75	65	54	46	46
21	44	44	42	42	44	103	93	75	65	53	45	46
22	45	43	43	41	45	105	88	77	64	54	45	46
23	45	41	41	e41	45	115	82	76	64	53	47	47
24	44	41	45	e43	45	116	78	75	62	52	47	46
25	43	43	46	44	45	112	77	73	62	51	48	45
26	43	45	47	43	47	115	75	72	62	50	48	45
27	44	43	43	43	48	102	78	72	62	51	48	53
28	45	43	42	44	49	91	84	78	62	50	47	48
29	46	44	45	45	48	82	87	88	62	50	47	38
30	45	45	46	46	---	79	84	81	61	50	46	47
31	44	---	45	45	---	84	---	77	---	49	46	---
TOTAL	1,408	1,354	1,352	1,317	1,297	2,317	2,854	2,526	1,961	1,711	1,453	1,370
MEAN	45.4	45.1	43.6	42.5	44.7	74.7	95.1	81.5	65.4	55.2	46.9	45.7
MAX	48	50	47	46	49	116	140	98	74	61	50	53
MIN	43	41	39	38	43	46	75	72	61	49	44	38
AC-FT	2,790	2,690	2,680	2,610	2,570	4,600	5,660	5,010	3,890	3,390	2,880	2,720

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915-17, 1919-96, 2001-04, BY WATER YEAR (WY)

MEAN	91.5	86.1	81.3	77.6	80.4	102	210	289	168	120	105	94.9
MAX	192	174	159	148	269	356	566	940	494	284	239	209
(WY)	(1985)	(1985)	(1984)	(1984)	(1986)	(1986)	(1946)	(1984)	(1984)	(1984)	(1984)	(1984)
MIN	42.6	41.2	40.7	42.5	43.5	47.3	63.9	58.6	49.7	45.1	40.9	40.2
(WY)	(1993)	(1993)	(1991)	(2004)	(1942)	(1942)	(1931)	(1934)	(1992)	(1992)	(1992)	(1992)

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10113500 BLACKSMITH FORK ABOVE UTAH POWER &amp; LIGHT CO.'S DAM, NEAR HYRUM, UT—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1915 -17, 1919-96, 2001-04
ANNUAL TOTAL	22,794	20,920	
ANNUAL MEAN	62.4	57.2	
HIGHEST ANNUAL MEAN			126
LOWEST ANNUAL MEAN			295
HIGHEST DAILY MEAN	178	May 17	1984
LOWEST DAILY MEAN	39	Dec 16	1941
ANNUAL SEVEN-DAY MINIMUM	42	Dec 15	53.0
ANNUAL RUNOFF (AC-FT)	45,210	41,490	1,530
10 PERCENT EXCEEDS	109	87	May 15, 1984
50 PERCENT EXCEEDS	51	47	26
90 PERCENT EXCEEDS	44	43	35
			Dec 23, 1990
			Dec 19, 1990
			91,160
			223
			94
			56

e Estimated

